

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/04333

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ D01F8/04, G09F3/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ D01F8/04, G09F3/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2003
Kokai Jitsuyo Shinan Koho 1971-2003 Toroku Jitsuyo Shinan Koho 1994-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 11-107109 A (TEIJIN LTD., NISSAN MOTOR CO., LTD., TANAKA KIKINZOKU KOGYO KABUSHIKI KAISHA), 20 April, 1999 (20.04.99), Full text; Fig. 1 (Family: none)	1, 3-9, 11, 14, 17-24 2, 10, 12-13, 15-16
X Y A	EP 1006221 A1 (NISSAN MOTOR CO., LTD., TANAKA KIKINZOKU KOGYO KABUSHIKI KAISHA, TEIJIN LTD.), 07 June, 2000 (07.06.00), Full text; Figs. 1 to 3 & JP 2000-170028 A Full text; Figs. 1 to 3	2, 10 12-13 1, 3-9, 11, 14-24
X A	JP 6-8679 A (Mitsubishi Paper Mills Ltd.), 18 January, 1994 (18.01.94), Column 3, line 29 to column 4, line 32; Fig. 1 (Family: none)	15 23

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier document but published on or after the international filing date
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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search
30 July, 2003 (30.07.03)

Date of mailing of the international search report
12 August, 2003 (12.08.03)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 4-174707 A (Toray Industries, Inc.), 22 June, 1992 (22.06.92), Full text; Figs. 1 to 2 (Family: none)	16 24
Y A	US 5974150 A (TRACER DETECTION TECHNOLOGY CORP.), 26 October, 1999 (26.10.99), Full text; Figs. 1 to 3 & JP 2001-518414 A Full text; Figs. 1 to 3 & WO 99/17486 A1	12-13 1-11, 14-24
A	JP 2000-226737 A (Toray Industries, Inc.), 15 August, 2000 (15.08.00), Column 3, lines 17 to 35 (Family: none)	7
A	JP 2000-199171 A (Toyobo Co., Ltd.), 18 July, 2000 (18.07.00), Column 5, lines 4 to 40; Fig. 2 (Family: none)	20